

PRELIMINARY

### TECHNICAL SPECIFICATIONS

# FB16-20-Q1

**TCM LITE Range, optimal specification for day to day operations, without compromising engineering excellence, long-term performance and outstanding reliability.**

**EASY TO USE, SIMPLE TO MAINTAIN.**

**TCM FB16-20-Q1** with 1600 kg and 2000 kg load capacity and up to 6 metre lift height, delivers the optimum **power and 4-wheel stability for light to medium-duty tasks both indoor and on outdoor uneven surfaces**, ensuring effective performance without overspecification.

Intuitive, straightforward **Mechanical Control** reduces training time and boosts productivity from day one. **Comfort-focused seat** design minimises vibration, reducing operator fatigue and enhancing focus.

**Superior shock absorption** with front and rear **super elastic tyres** for smooth handling and extended tyre life, even on uneven surfaces.

**Full road light kit (including hazard light button)** meets visibility standards for safer operation indoors and outdoors. **Blue spot** projects a clear warning light to alert pedestrians, reducing collision risks in busy areas. High visibility **strobe light** in low-light conditions enhances safety across all environments.

Audible alerts from the **Reverse Warning Buzzer** improve awareness and prevent accidents during reversing manoeuvres. **Parabolic Mirror** with wider rear visibility eliminates blind spots for safer navigation.

Rapid opportunity-charging **Li-ion Standard Battery (No Lead Acid)** with zero maintenance, and no water filling, is always ready to keep your business moving.

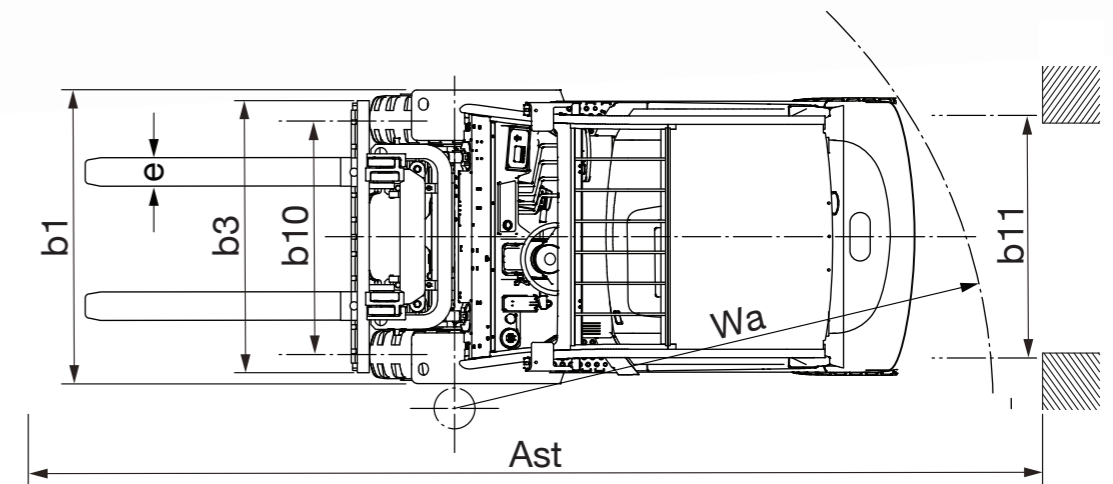
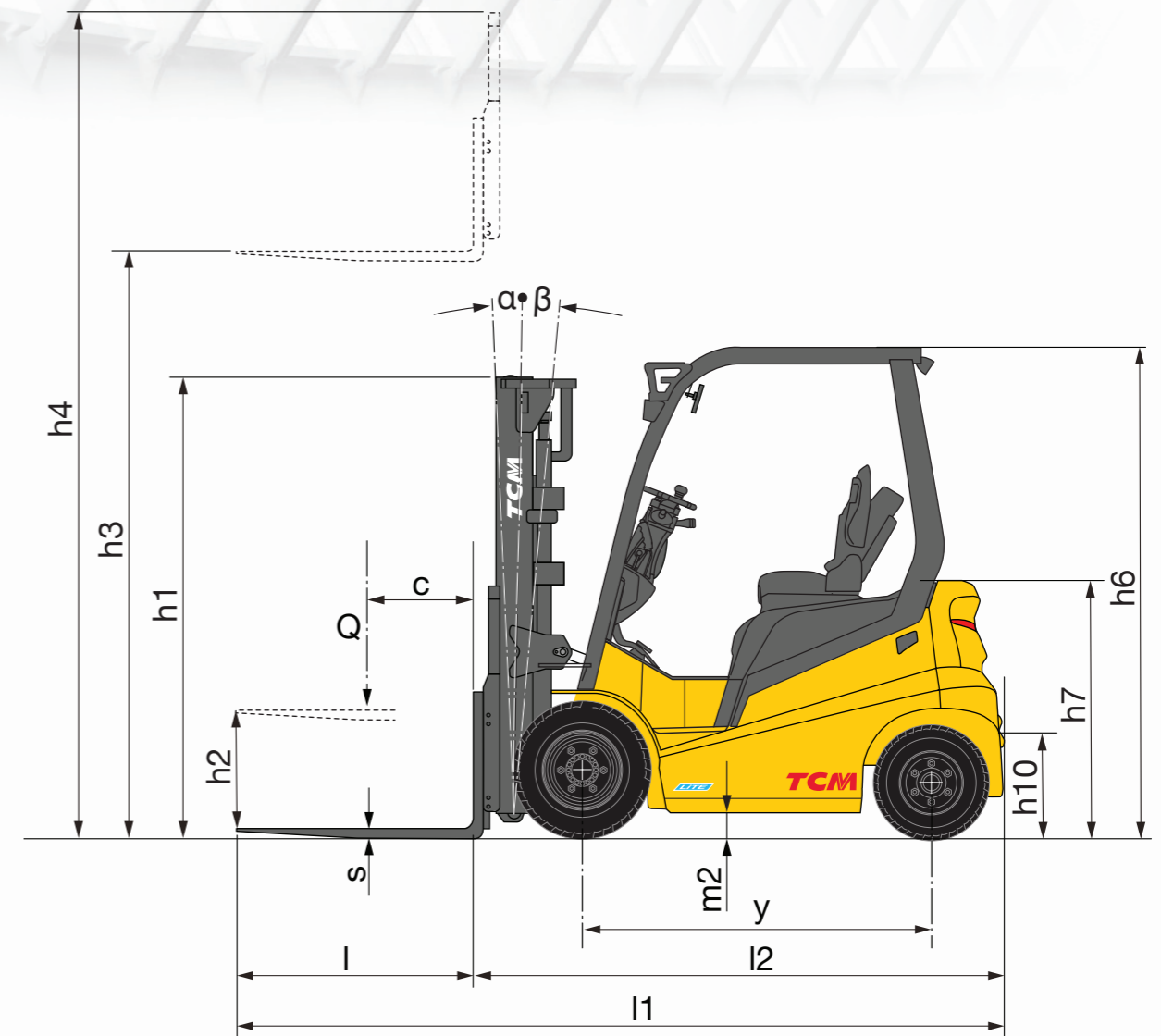


## STANDARD SPECIFICATIONS

CHARACTERISTICS		TCM Forklifts		
		FB16-Q1	FB20-Q1	
1.01	Manufacturer			
1.02	Manufacturer's model designation			
1.03	Power source: (battery, diesel, LPG, petrol)	Electric	Electric	
1.04	Operator type: pedestrian, standing, seated	Seated	Seated	
1.05	Load capacity	Q (kg)	1600	2000
1.06	Load centre distance	c (mm)	500	500
1.08	Load distance, axle to fork face	x (mm)	381	386
1.09	Wheelbase	y (mm)	1410	1410
WEIGHT				
2.01	Truck weight, without load / including battery (simplex mast, lowest lift height)	kg	2900	3200
2.02	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)	kg	3020/480	4670/530
2.03	Axle loading without load, front/rear (simplex mast, lowest lift height)	kg	1220/1680	1400/1800
WHEELS, DRIVE TRAIN				
3.01	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear		Super Elastic	Super Elastic
3.02	Tyre dimensions, front		6.50-10-10PR	6.50-10-10PR
3.03	Tyre dimensions, rear		5.00-8-10PR	5.00-8-10PR
3.05	Number of wheels, front/rear (x=driven)		2x / 2	2x / 2
3.06	Track width (centre of tyres), front	b10 (mm)	970	970
3.07	Track width (centre of tyres), rear	b11 (mm)	920	920
DIMENSIONS				
4.01	Mast tilt, forwards/backwards	$\alpha/\beta$ °	see table	see table
4.02	Height with mast lowered (see tables)	h1 (mm)	see table	see table
4.03	Free lift (see tables)	h2 (mm)	see table	see table
4.04	Lift height (see tables)	h3 (mm)	see table	see table
4.05	Overall height with mast raised	h4 (mm)	see table	see table
4.07	Height to top of overhead guard	h6 (mm)	2150	2150
4.08	Seat height	h7 (mm)	1085	1085
4.12	Tow coupling height	h10 (mm)	460	460
4.19	Overall length	l1 (mm)	3045	3195
4.20	Length to fork face (includes fork thickness)	l2 (mm)	2125	2125
4.21	Overall width	b1 (mm)	1150	1150
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	35/100/920	40/100/1070
4.24	Fork carriage width	b3 (mm)	1040	1040
4.31	Ground clearance under mast, with load	m1 (mm)	98	98
4.32	Ground clearance at center of wheelbase, with load (forks lowered)	m2 (mm)	100	100
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast (mm)	3501	3506
4.34b	Working aisle width with 800 x1200 mm pallets, lengthwise	Ast (mm)	3701	3706
4.35	Turning circle radius	Wa (mm)	1920	1920
PERFORMANCE				
5.01	Travel speed, with/without load	km/h	14/15	14/15
5.02	Lifting speed, with/without load	m/s	0.32/0.42	0.32/0.42
5.03	Lowering speed, with/without load	m/s	0.52/0.42	0.52/0.42
5.08	Maximum gradeability, with/without load	%	15/20	15/20
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Hydraulic	Hydraulic
ELECTRIC MOTOR				
6.01	Drive motor capacity (60 min. short duty)	kW	11	11
6.02	Lift motor output at 15% duty factor	kW	12	12
6.03	Battery to DIN 43 531 / 35 / 36 A / B / C / no		Li-ion	Li-ion
6.04	Battery voltage	V/Ah	Li-ion: 76.8 / 125 (206 option)	Li-ion: 76.8 / 125 (206 option)
6.05	Battery weight (including container)	kg	160 / 200	160 / 200
MISCELLANEOUS				
8.01	Type of drive control		AC	AC
10.01	Maximum operating pressure for attachments	bar	14.5	14.5
10.02	Oil flow for attachments	l/min	30	30
10.07	Noise level, value at operator's ear (EN 12053)	dB(A)	72	72

OPTIONS	
<b>Integrated &amp; external charger</b>	- for fast and flexible charging options
<b>Higher travel and lift speed</b>	- for faster handling and shorter cycle times
<b>Glass roof on standard overhead guard</b>	- to keep operator dry increasing safety from falling goods
<b>Fingertip incl forward reverse</b>	- for effortless precision control
<b>High end seat - Grammar MSG65</b>	- for greater operator comfort and posture support
<b>Front window with wiper</b>	- for visibility in light rain and dusty conditions
<b>Cold storage modification</b>	- for greater efficiency in low temperature settings
<b>Non-marking SE tyres</b>	- to keep floors clean and mark-free
<b>Fork positioner including sideshift</b>	- for faster more accurate load placement

## DIMENSIONS FB16-20-Q1



# FB16-20-Q1

## MAST SPECIFICATIONS & RATED CAPACITIES

### FB16-Q1

MAST TYPE	Lift height (mm)	Overall mast height (mm)		Freelift (mm)	Mast Tilt Forward/Backward (Degrees)	FB16-Q1			
		Lowered	Extended			Without sideshift		With sideshift	
						Load capacity (kgs) @ load centre (mm) - Super elastic tyres			
		h3	h1			h4	h2	∅/B	500
DUPLEX	3000	2053	3982	130	6/10	1600	1450	1450	1300
	3300	2203	4282	110	6/10	1600	1450	1450	1300
	4000	2603	4982	110	6/6	1500	1360	1350	1210
TRIPLEX	4300	2103	5280	1153	6/6	1400	1270	1250	1120
	4500	2153	5480	1203	6/6	1300	1170	1150	1020
	4800	2253	5780	1303	6/6	1000	900	850	750
	5000	2353	5980	1403	6/6	900	816	750	666
	5500	2503	6480	1553	3/6	800	725	650	575
	6000	2703	6980	1753	3/6	700	635	550	485

### FB20-Q1

MAST TYPE	Lift height (mm)	Overall mast height (mm)		Freelift (mm)	Mast Tilt Forward/Backward (Degrees)	FB20-Q1			
		Lowered	Extended			Without sideshift		With sideshift	
						Load capacity (kgs) @ load centre (mm) - Super elastic tyres			
		h3	h1			h4	h2	∅/B	500
DUPLEX	3000	2053	3982	130	6/10	2000	1810	1850	1660
	3300	2203	4282	110	6/10	2000	1810	1850	1660
	4000	2603	4982	110	6/6	1800	1633	1800	1483
TRIPLEX	4300	2103	5280	1153	6/6	1600	1450	1600	1300
	4500	2153	5480	1203	6/6	1500	1360	1500	1210
	4800	2253	5780	1303	6/6	1200	1080	1200	930
	5000	2353	5980	1403	6/6	1100	990	1100	840
	5500	2503	6480	1553	3/6	900	810	900	660
	6000	2703	6980	1753	3/6	800	725	800	575

